

Fig. 1

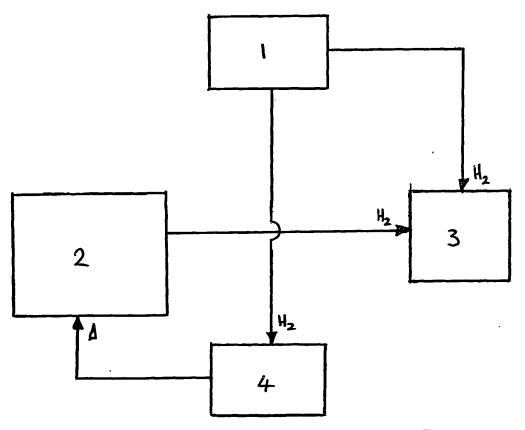


Fig. 2

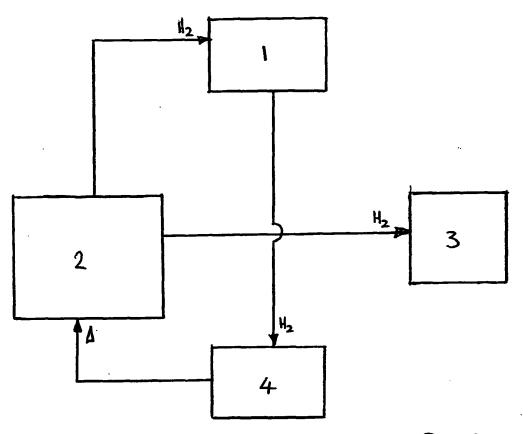
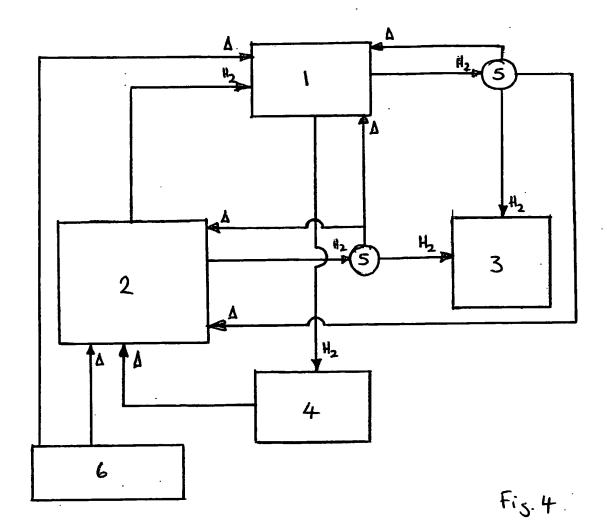


Fig. 3



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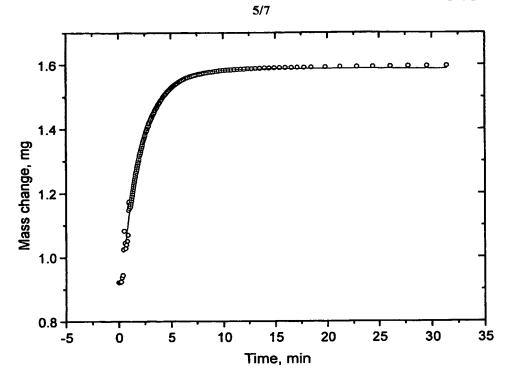


Figure 5

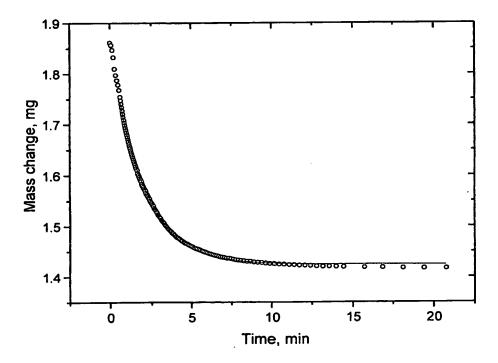
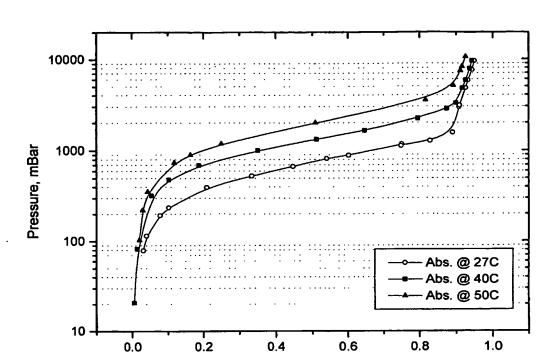


Figure 6



H/M

Figure 7

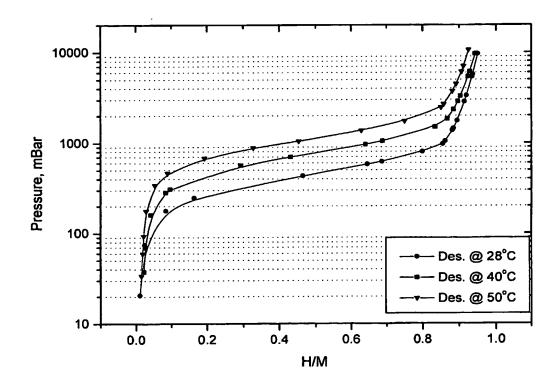


Figure 8

## Hydrogenation of MgH<sub>2</sub>-1wt% Ni at 300C, 25 sccm H<sub>2</sub>

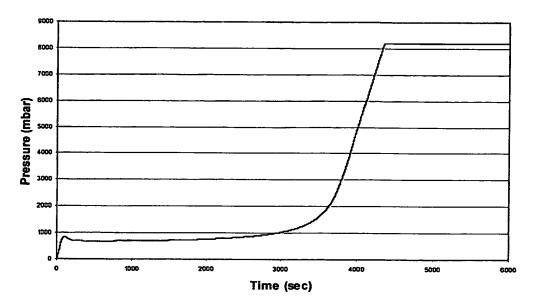


Figure 9

## Dehydrogenation of $MgH_2$ -1wt% Ni at 300C, 25 sccm $H_2$

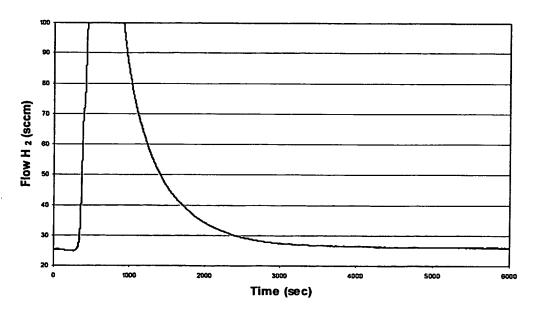


Figure 10